

CLAIMS

What is claimed is:

1. An electro-optical device comprising:
a substrate having an electro-optical material disposed thereon; and
a plurality of wires including routing wire portions formed in a first region of the substrate outside of a second region of the substrate opposing the electro-optical material;
wherein the routing wire portion of each of the plurality of wires has a first portion and a second portion, the second portion having a smaller width than the first portion.
2. An electro-optical device according to Claim 1, further comprising:
a driver IC mounted in the first region of the substrate, and supplying output signals to individual members of the plurality of wires.
3. An electro-optical device according to Claim 1, further comprising:
a plurality of first electrodes and a plurality of second electrodes, the second electrodes being located on one side of the first electrodes, sandwiching the electro-optical material therebetween and extending in a direction for intersecting with the first electrodes,
wherein one of the first and second electrodes connected to the wires has more electrodes than the other .
4. An electro-optical device according to Claim 1, further comprising:
a pixel constructed by a plurality of sub-pixels individually corresponding to different colors; and
color filters corresponding to the respective sub-pixels.

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5. An electro-optical device according to Claim 1, wherein the plurality of wires have a first layer and a second layer, the second layer having a resistance value lower than that of the first layer, and the second layer is formed to correspond at least to the second portions of the wires.

6. An electro-optical device according to Claim 5, wherein the first layer comprises a metal oxide film, and the second layer comprises a metal film.

7. An electro-optical device according to Claim 6, further comprising an electrode formed on the substrate and used for applying a voltage to the electro-optical material, wherein the first layer is formed of the same layer as that of the electrode.

8. An electro-optical device according to Claim 5, wherein the second layer is formed outside of the first region where the wires and the driver IC are connected.

9. An electro-optical device according to Claim 1, wherein the second portions are substantially aligned.

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10. An electro-optical device according to Claim 1, wherein the electro-optical material further comprises liquid crystal disposed between the substrate and another substrate attached together through a sealing member.

11. An electro-optical device according to Claim 10, wherein the plurality of wires have a first layer and a second layer, the second layer having a resistance value lower than that of the first layer, and

the second layer is formed corresponding at least to the second portions of the wires and outside of a region of the substrate where the sealing member is formed.

12. An electro-optical device according to Claim 1, wherein the electro-optical material further comprises an Electro-Luminescence layer.

13. An electro-optical device comprising:

a substrate having an electro-optical material disposed thereon; and

a plurality of wires having routing wire portions formed in a first region of the substrate other than a second region of the substrate opposing the electro-optical material;

wherein the routing wire portion of each of the plurality of wires has a first portion and a second portion; and

an interval of adjacent routing wire portions in the second portions is larger than an interval of the adjacent routing wire portions in the first portions.

14. Electronic equipment including an electro-optical device as a display unit thereof, the electro-optical device comprising:

a substrate having an electro-optical material disposed thereon; and

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a plurality of wires having routing wire portions formed in a first region of the substrate other than a second region of the substrate opposing the electro-optical material;

wherein the routing wire portion of each of the plurality of wires has a first portion and a second portion, the second portion having a width smaller than that of the first portion.

15. Electronic equipment according to Claim 14, further comprising

a driver IC mounted in the first region of the substrate, and supplying output signals to individual members of the plurality of wires.

16. Electronic equipment according to Claim 14, wherein the second portions are substantially aligned.

17. Electronic equipment including an electro-optical device as a display unit thereof, the electro-optical device comprising:

a substrate having an electro-optical material disposed thereon; and

a plurality of wires having routing wire portions formed in a first region of the substrate other than a second region of the substrate opposing the electro-optical material;

wherein the routing wire portion of each of the wires has a first portion and a second portion; and

an interval of adjacent routing wire portions in the second portions is larger than an interval of adjacent routing wire portions in the first portions.